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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,967	05/08/2001	Stuart A. Newman	51230-00601	1338
25243 7	25243 7590 09/07/2005		EXAMINER	
COLLIER SHANNON SCOTT, PLLC			YU, MISOOK	
3050 K STREET, NW SUITE 400 WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			1642	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

						
	•	Application No.	Applicant(s)			
Office Action Summary		09/849,967	NEWMAN ET AL.			
		Examiner	Art Unit			
		MISOOK YU, Ph.D.	1642			
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet to	with the correspondence address			
WHIC - Exten after: - If NO - Failur Any n	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MC cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 24 M	ay 2005.				
·	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Dispositi	on of Claims					
4)🖾	Claim(s) <u>1-15,21,29,30 and 55-64</u> is/are pendir	ng in the application.				
	ta) Of the above claim(s) is/are withdraw	,				
5)	Claim(s) <u>57-64</u> is/are allowed.					
6)⊠	Claim(s) <u>1-6,9-15,21,29 and 58</u> is/are rejected.	-				
	Claim(s) <u>55</u> is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Application	on Papers					
9) 🗆 -	The specification is objected to by the Examine	r.				
10)[Γhe drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to	by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti		·			
11)[The oath or declaration is objected to by the Ex	aminer. Note the attache	ed Office Action or form PTO-152.			
riority u	nder 35 U.S.C. § 119		· ·			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents		§ 119(a)-(d) or (f).			
	1. Certified copies of the priority documents2. Certified copies of the priority documents		Application No.			
	3. Copies of the certified copies of the prior					
	application from the International Bureau		in received in this ivational stage			
* S	ee the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	ot received.			
		·				
Attachment	•	,, –– , , , , , , ,				
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Paper No	Summary (PTO-413) o(s)/Mail Date			
) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		Informal Patent Application (PTO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/24/2005 has been entered.

Claims 1, 29, 57, 59, 61, and 63 are amended. Claims 1-6, 9-15, 21, 29-30, and 55-64 are pending and examined on merits.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Objections

Claim 55 is newly objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The specification at Examples 1 at page 59, FGFR2 exon 8 has ESS. However, claim 55 is drawn more than ESS.

Claim Rejections - 35 USC § 112, Withdrawn

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The rejection of claims 1-15, 21, 29, 30, and 55-64 under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement is **withdrawn** because applicant argument is persuasive.

The rejection of claims 1-15, 21, 29, 30, 55, and 56 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is withdrawn in view of the amendment.

Claim Rejections - 35 USC § 102

Claims 57, 58, 61-64 **remain rejected** under 35 U.S.C. 102(b) as being anticipated by Purcell and Martin (J. Virol.,1993, vol. 67, pages 6365-78) as evidenced by Damgaard et al., (2002, RNA, vol. 8, pages 1401-1415) and by <u>Section 2. Virology</u> (total 5 pages) of Medical Microbiology (S. Baron, ed) downloaded from url>>cbi.nlm.nih.gov/books on 4/20/2004.

Claims 57, 58, 61-64 are interpreted as drawn to method with only one manipulative active step i.e. introducing into a cell a plurality of RNA polynucleotide sequences consisting essentially of at least one intronic splicing (ISS) in claims 57, and 58, exonic splicing silencer (ESS) in claims 61, and 62, exonic splicing enhancer (ESE) in claims 63 and 64, wherein the introduced polynucleotide sequences compete with at least one endogenous RNA sequence for interacting with the hnRNP A protein or hnRNP A1 protein or hnRNP A protein.

Applicant argues that the product used in the amended claims with the transitional phrase "consisting essentially of" is different from the HIV genome of Purcell and Marin used in the study of infecting HIV-1 virus to lymphocytes or human T-cell lines by contacting the cell lines with HIV-1 virus. This argument has been fully

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considered but found unpersuasive/ The amended claims 56, 57, 58, 61-64 as currently construed still read on the procedure of infecting HIV-1 virus to lymphocytes or human T-cell lines by contacting said cell lines with HIV-1 virus disclosed in lines 4-5 of abstract, and page 6366, right column, under the heading "Cell culture, transfections, and infections", page 6374 under the heading "Infectivity of splicing mutants of HIV-1" of Purcell and Martin (cited above) because the transitional phrase "consisting essentially of" is interpreted as open (i.e. same scope as "comprising") unless the specification as originally filed defines the scope to be otherwise. As stated before in the previous Office action, HIV-1 RNA inherently has ESS, and other sequences (as evidenced by Damgaard et al., note abstract, page 1403, Table 1) that hnRNP A1 (species of hnRNP A) binds to. In summary, the product used in the amended base claims still read on the HIV-1 genome, which comprises ESS, ISS, and ESE.

Rejection of all other claims not repeated here is withdrawn because the amended claims are no longer anticipated by the art if record.

Allowable Subject Matter

Claims 1-6, 9-15, 21, 29, 30, and 56 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 571-272-0839. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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